

U.S. Army Materiel Command

COL(P) Vincent Boles

Deputy Chief of Staff for Ammunition

**Ammunition Update
to 45th NDIA
Fuze Conference**

17 April 2001



AMC-Army READINESS Command... Supporting Every Soldier Every Day

Report Documentation Page		
Report Date 17Apr2001	Report Type N/A	Dates Covered (from... to) -
Title and Subtitle Ammunition Update to 45th NDIA Fuze Conference	Contract Number	
	Grant Number	
	Program Element Number	
Author(s) Boles, Vincent	Project Number	
	Task Number	
	Work Unit Number	
Performing Organization Name(s) and Address(es) U.S. Army Material Command	Performing Organization Report Number	
Sponsoring/Monitoring Agency Name(s) and Address(es) NDIA (National Defense Industrial Association) 211 Wilson BLvd., Ste. 400 Arlington, VA 22201-3061	Sponsor/Monitor's Acronym(s)	
	Sponsor/Monitor's Report Number(s)	
Distribution/Availability Statement Approved for public release, distribution unlimited		
Supplementary Notes Proceedings from The 45th Annual Fuze Conference, 16-18 April 2001 Sponsored by NDIA, The original document contains color images.		
Abstract		
Subject Terms		
Report Classification unclassified	Classification of this page unclassified	
Classification of Abstract unclassified	Limitation of Abstract UU	
Number of Pages 25		

Spectrum of Military Operations



Topics

- ★ ***Fuze Base Concerns***

- ★ **Munitions FAA 2000**

- ★ **Aging Stockpile**

- ★ **Recapitalization**

- ★ **Army Procurement**

- ★ **Fuzes in Production / Procurement**

- ★ **Thoughts I Want to Leave You With**

- ★ **Thoughts to Take Away**



Fuze Base Concerns

- * In Oct '00, Initiated Study to Look at State of the Power Supply Base*
 - * Industry Participated & Provided Valuable Input*
 - * Formulating Strategy to Support this Part of Base Critical to Future Smart Munitions*
 - * Recap will Place Burden for Reserve Batteries in Self-Destruct Fuzes*
-



Topics

- ★ **Fuze Base Concerns**
- ★ ***Munitions FAA 2000***
- ★ **Aging Stockpile**
- ★ **Recapitalization**
- ★ **Army Procurement**
- ★ **Fuzes in Production / Procurement**
- ★ **Thoughts I Want to Leave You With**
- ★ **Thought to Take Away**



Munitions FAA - 2000

- ✓ **Precision Munitions** - *can reduce Army Logistics Footprint, but pace is too slow . . . Multiple Participants . . . T.T.P. 6300 Rounds*
- ✓ **Serious Issues in Fire Support** - *cold war stockpile aging or declining, have delayed modernization*
- ✓ **Recapitalization Focus** - *support for Low Cost Competent Munitions to bridge modernization gap, extend shelf life of stockpile*
- ✓ **Industrial Base** - *Continue “commercialization” strategy to yield cost /process efficiencies with domestic/global competitiveness*



Topics

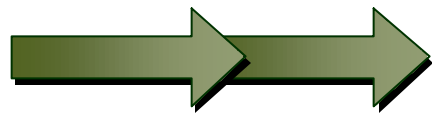
- ★ **Fuze Base Concerns**
- ★ **Munitions FAA 2000**
- ★ ***Aging Stockpile***
- ★ **Recapitalization**
- ★ **Army Procurement**
- ★ **Fuzes in Production / Procurement**
- ★ **Thoughts I Want to Leave You With**
- ★ **Thoughts to Take Away**



How Long Can We Rely on Aging Stockpile?

- * Increasing signs of age in current stockpile - major suspensions in 60MM, Mechanical Time Fuzes, older 120MM tank ammunition*
- * Decision to exclusively use SD-fuzed submunitions would require replacement/remanufacture of 4 M+ DPICM munitions and 100K MLRS -potential \$22B bill*
- * Over \$100M in deferred maintenance on stockpile munitions - backlog growing - mainly substitute munitions*

Army is facing need to recapitalize conventional munitions stockpile within next 10 years



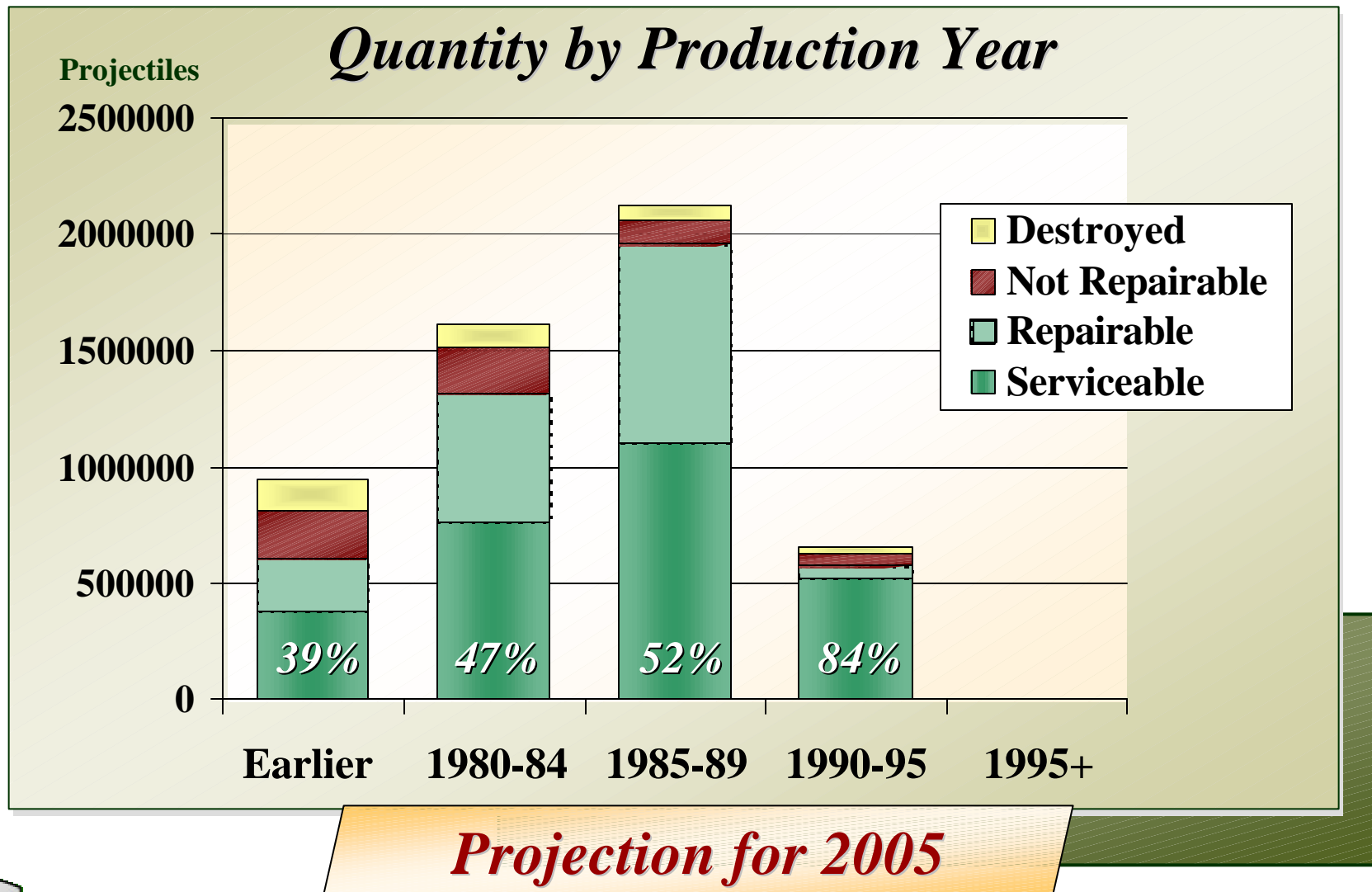
OR PUT ANOTHER WAY...



AMC-Army READINESS Command... Supporting Every Soldier Every Day

M:\Briefing\Fuze_NDIA_2001.ppt 2/1/01 17:10

Aging Stockpile - 155MM DPICM



AMC-Army READINESS Command... Supporting Every Soldier Every Day

Topics

- ★ Fuze Base Concerns
- ★ Munitions FAA 2000
- ★ Aging Stockpile
- ★ *Recapitalization*
- ★ Army Procurement
- ★ Fuzes in Production / Procurement
- ★ Thoughts I Want to Leave You With
- ★ Thoughts to Take Away



Recapitalization

- * Returns Ammo to “Zero Hours” Standard - Upgrade w/Technical Enhancements, Repairs, Shelf Life Extension*
 - * Improve Existing Stockpile*
 - * Technology Insertion (i.e. Self-destruct Fuze)*
 - * Offset Demil Costs (Estimated Cost \$78M)*
-



Recapitalization - - - Examples

- * *Self-Destruct Fuzes on M864 DPICM's*
- * *Convert M483's Into M864's w/Self-Destruct Fuzes*
- * *R&D \$ for Low Cost Competent Munitions (LCCM) to Increase Effectiveness and Reduce Logistics Footprint*
- * *LCCM Fuze on DPICM*



Topics

- ★ **Fuze Base Concerns**
- ★ **Munitions FAA 2000**
- ★ **Aging Stockpile**
- ★ **Recapitalization**
- ★ ***Army Procurement***
- ★ **Fuzes in Production / Procurement**
- ★ **Thoughts I Want to Leave You With**
- ★ **Thoughts to Take Away**



Near Term Procurement Ammunition, Army

Army Budget

(\$ in Millions)

APPROPRIATION	FY00	FY01
FAMILY HOUSING	1,142	1,188
MIL PERSONNEL	27,934	28,373
RDTE	5,245	6,298
MCA	1,573	1,300
OMA	26,946	23,827
PROCUREMENT	9,443	11,005
ERA		390
BRAC	144	280
CHEM DEMI	1,023	980
AWCF	62	
TOTAL*	73,510	73,641

**Totals may not add due to rounding*

Procurement Appropriation

(\$ in Millions)

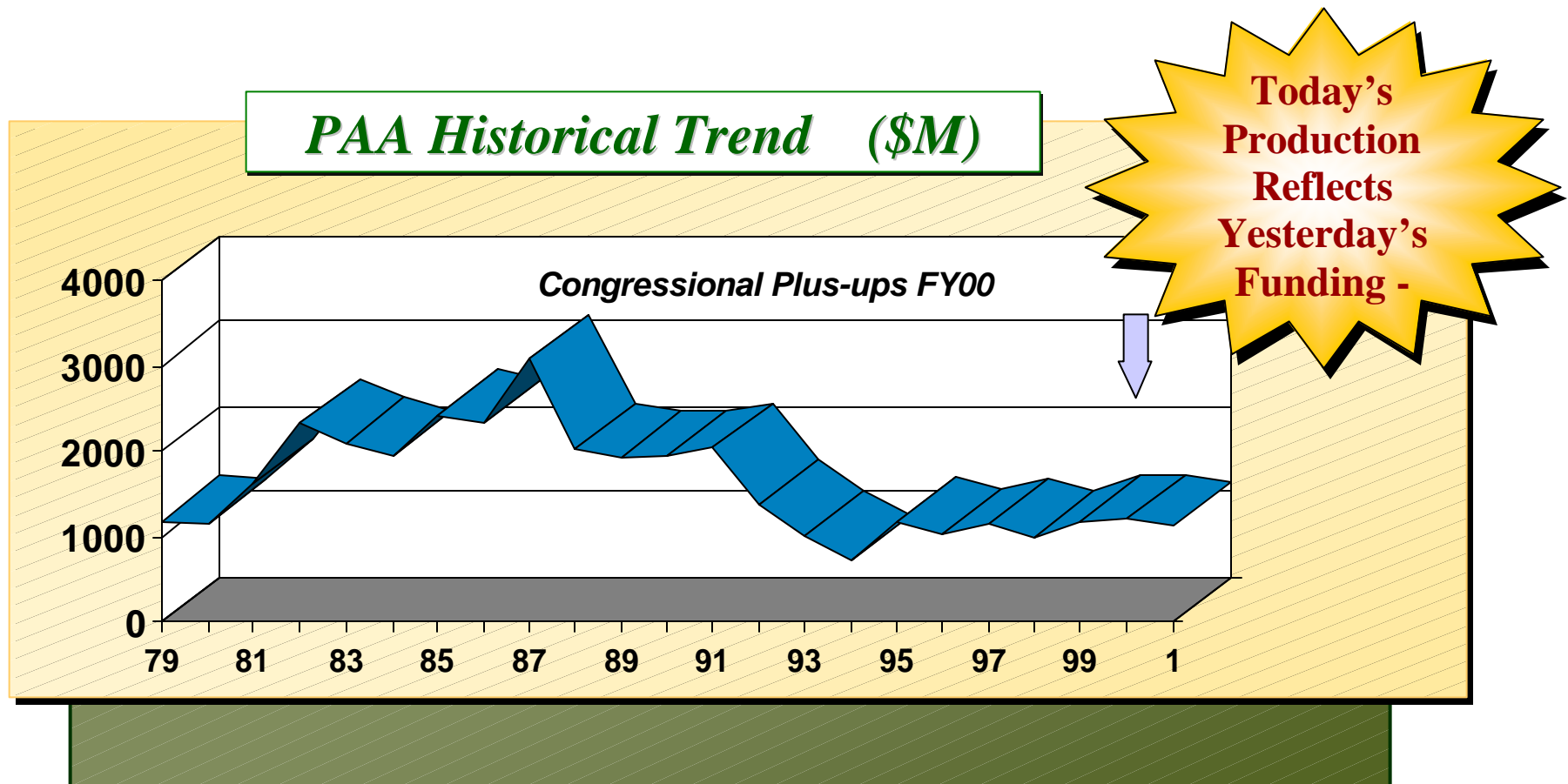
APPROPRIATION	FY00	FY01
AIRCRAFT	1,507	1,561
MISSILES	1,309	1,311
WTCV	1,712	2,455
AMMUNITION	1,193	1,212
OTHER PROCUREMENT	3,722	4,466
TOTAL	9,443	11,005

...OR PUT ANOTHER WAY...



AMC-Army READINESS Command... Supporting Every Soldier Every Day

Near Term Procurement Ammunition, Army

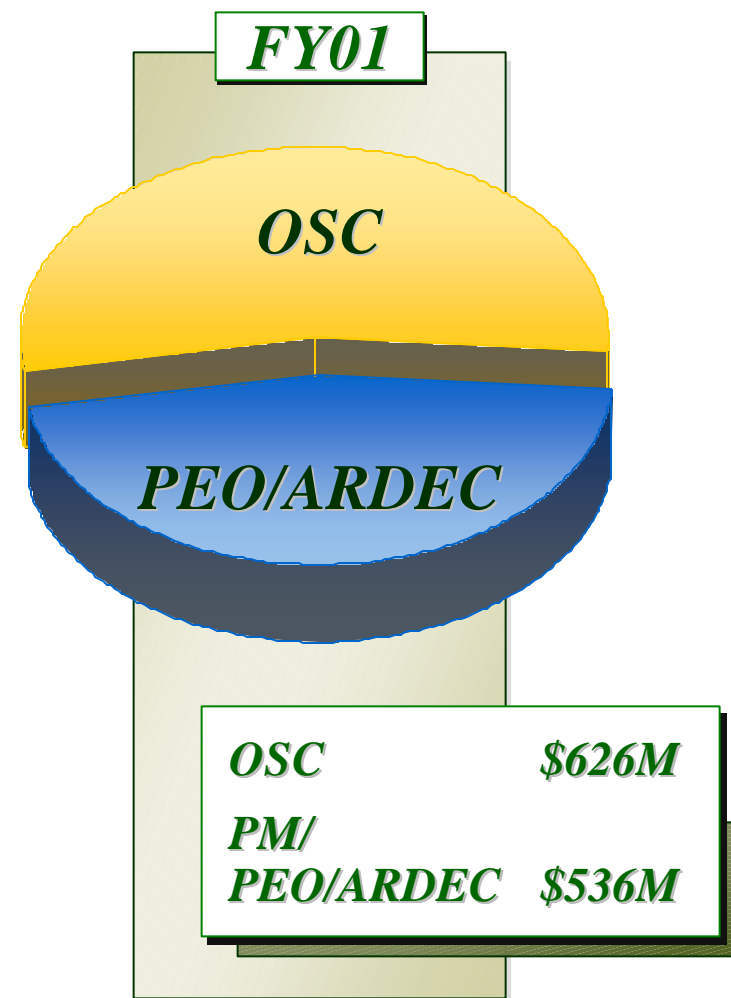
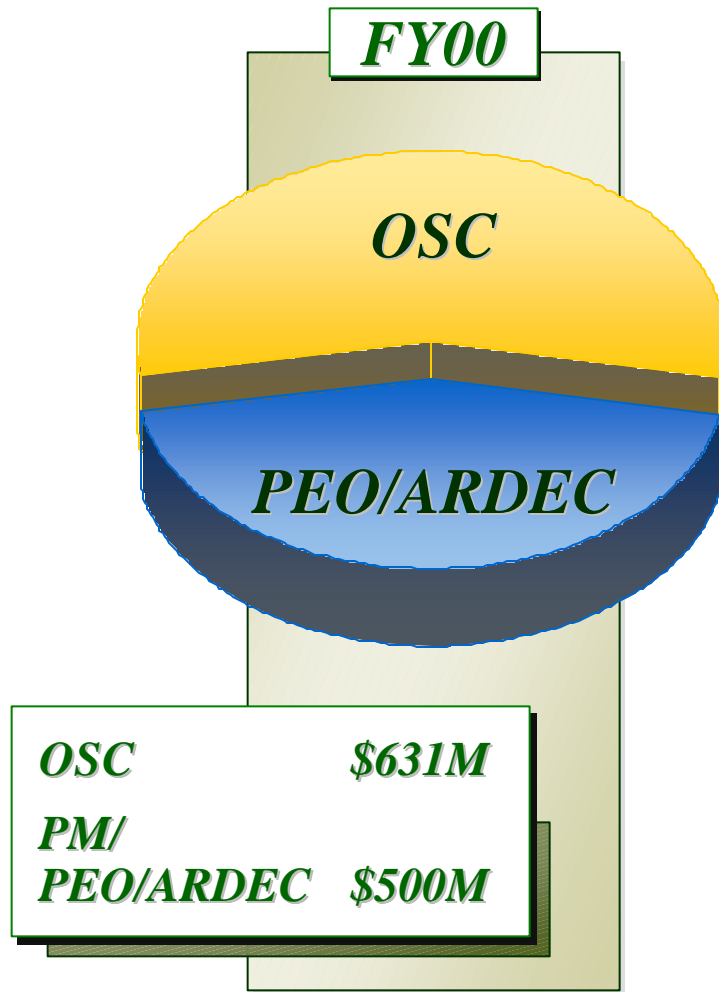


AMC-Army READINESS Command... Supporting Every Soldier Every Day

M:\Briefing\Fuze_NDIA_2001.ppt 2/1/01 17:10

Who Executes These Dollars

PAA

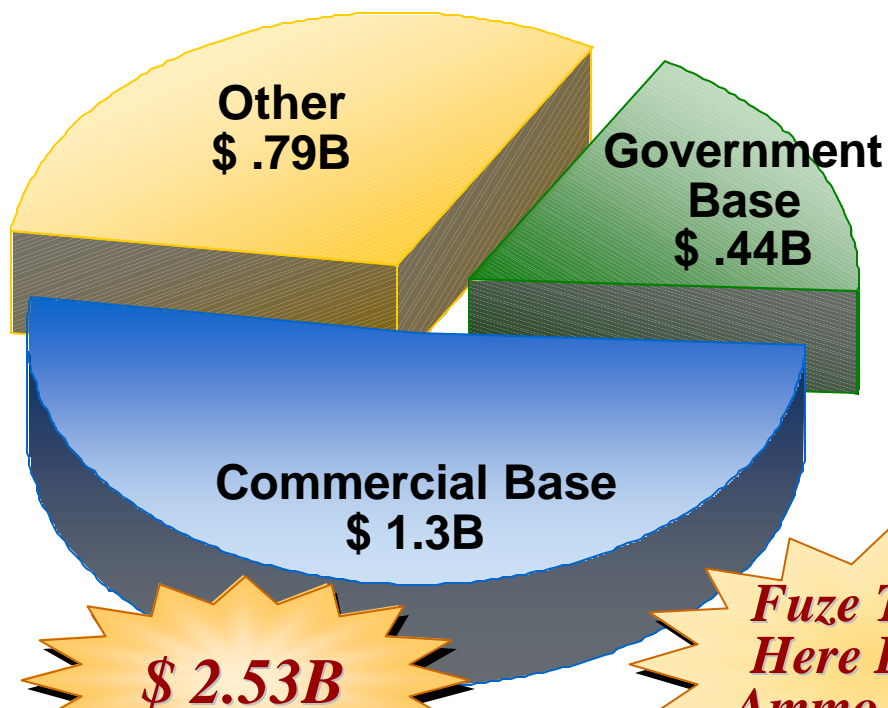


AMC-Army READINESS Command... Supporting Every Soldier Every Day

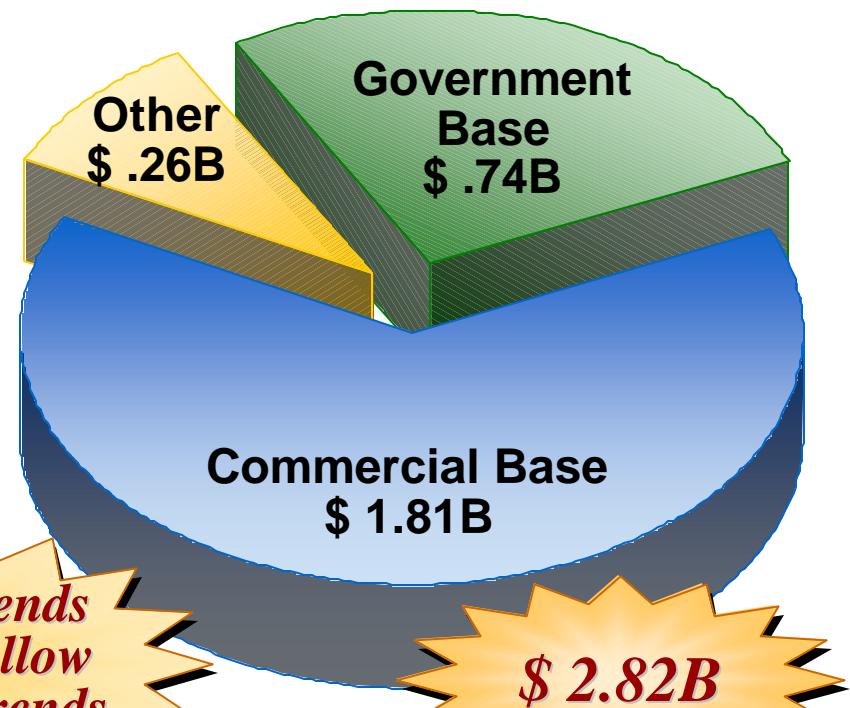
Where the Money Goes

GOCO vs COCO vs Other

FY96 - FY98



FY99 - FY03



***Fuze Trends
Here Follow
Ammo Trends***

Hardware Costs



AMC-Army READINESS Command... Supporting Every Soldier Every Day

M:\Briefing\Fuze_NDIA_2001.ppt 2/1/01 17:10

Topics

- * Fuze Base Concerns
- * Munitions FAA 2000
- * Aging Stockpile
- * Recapitalization
- * Army Procurement
- * ***Fuzes in Production / Procurement***
- * Thoughts I Want to Leave You With
- * Thoughts to Take Away

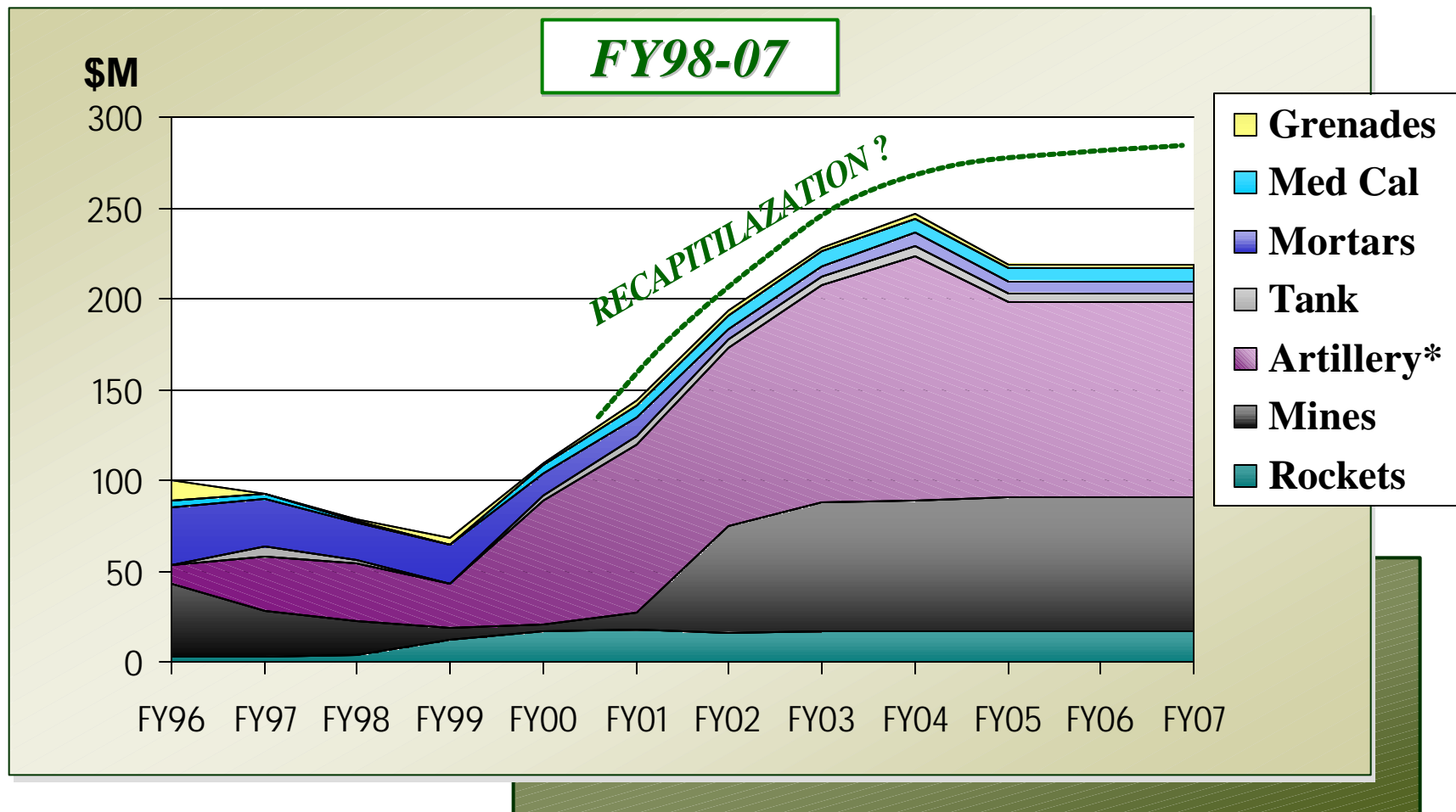


Fuzes In Production FY 02-03

- * *M762A1 & M767A1 ET Fuzes for Artillery*
 - * *M782 Multi-Option Fuze for Artillery (MOFA)*
 - * *M734A1 Multi-Option Fuze for Mortars*
 - * *M776 MTSQ Fuze for 120mm Mortar*
 - * *M775 Mortar Practice Fuze*
 - * *M783 PD Fuze for Mortars - TC in June*
 - * *Grenade Fuzes - M213, M218, M228*
-



Fuze Procurement by Categories



AMC-Army READINESS Command... Supporting Every Soldier Every Day

Topics

- ✦ **Fuze Base Concerns**
- ✦ **Munitions FAA 2000**
- ✦ **Aging Stockpile**
- ✦ **Recapitalization**
- ✦ **Army Procurement**
- ✦ **Fuzes in Production / Procurement**
- ✦ ***Thoughts I Want to Leave You With***
- ✦ **Thoughts to Take Away**



Thoughts I Want to Leave You With

————— Today: —————

✓ *Recapitalization Impacts Program Priorities*

✓ *Ammo Program Is Showing Positive Trends*

- Costs Are Reduced
- Improved Contracting Methods - Fixed Price, Multi-Year... Stabilizes Buys

✓ *Fuze Production Trend Up*

- Multi-year programs on M762A1/M767A1 and MOFA Fuzes

✓ *Increase Fuze Tech Base Funding above the current level of \$2M*

✓ *Fuze Workshop at Picatinny on May 8, 9 & 10*

Topics

- ✦ **Fuze Base Concerns**
- ✦ **Munitions FAA 2000**
- ✦ **Aging Stockpile**
- ✦ **Recapitalization**
- ✦ **Army Procurement**
- ✦ **Fuzes in Production / Procurement**
- ✦ **Thoughts I Want to Leave You With**
- ✦ ***Thoughts to Take Away***



Thoughts to Take Away

- ★ *The First Battle Is Logistics Readiness . . .
We Are Fighting It Now*
 - ★ *Army Must Have a Logistics Overmatch
(We Are the 9th Largest Army in the World)*
 - ★ *A Strong & Ready Army Requires a
Partnership With A Strong & Ready Industry*
-



U.S. Army Materiel Command

COL(P) Vincent Boles

Deputy Chief of Staff for Ammunition

**Ammunition Update
to 45th NDIA
Fuze Conference**

17 April 2001



AMC-Army READINESS Command... Supporting Every Soldier Every Day